

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/02524

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 00 08157 A (HU PING ;LAUBERT BORIS (US); AXYS PHARM INC (US); BUCKLER ALAN J) 17 February 2000 (2000-02-17) page 6, line 18 - line 31 SEQ ID N°1 page 13, line 28 -page 16, line 33</p> <p style="text-align: center;">-/-</p>	1-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

13 October 2003

Date of mailing of the International search report

27/10/2003

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>SUZUKI A ET AL: "Polymorphisms in the digoxin uptake transporter OATP-8, among Japanese, African-, and European-American subjects"</p> <p>CLINICAL PHARMACOLOGY AND THERAPEUTICS, vol. 71, no. 2, February 2002 (2002-02), page P104 XP009018803</p> <p>Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics; Atlanta, Georgia, USA; March 24-27, 2002</p> <p>ISSN: 0009-9236</p> <p>abstract</p>	1-13
X	<p>IIDA ARITOSHI ET AL: "Catalog of 258 single-nucleotide polymorphisms (SNPs) in genes encoding three organic anion transporters, three organic anion-transporting polypeptides, and three NADH:ubiquinone oxidoreductase flavoproteins"</p> <p>JOURNAL OF HUMAN GENETICS, XX, XX, vol. 46, no. 11, 2001, pages 668-683, XP002245996</p> <p>cited in the application</p> <p>abstract; table 1</p>	1-13
A	<p>KOENIG JOERG ET AL: "Localization and genomic organization of a new hepatocellular organic anion transporting polypeptide"</p> <p>JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 30, 28 July 2000 (2000-07-28), pages 23161-23168, XP002257498</p> <p>ISSN: 0021-9258</p> <p>cited in the application</p> <p>the whole document</p>	
A	<p>ABE TAKAAKI ET AL: "LST-2, a human liver-specific organic anion transporter, determines methotrexate sensitivity in gastrointestinal cancers"</p> <p>GASTROENTEROLOGY, vol. 120, no. 7, June 2001 (2001-06), pages 1689-1699, XP009018879</p> <p>ISSN: 0016-5085</p> <p>the whole document</p>	

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 9 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

~~FURTHER INFORMATION CONTINUED FROM~~ PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-13

Subject-matter related to the polymorphisms positions 743 of SEQ ID 16 and 233 of SEQ ID 17

2. Claims: 1-4, 6-10

Subject-matter related to the polymorphism position 410 of SEQ ID 15

3. Claims: 1-4, 6-10

Subject-matter related to the polymorphism position 389-392 of SEQ ID 15

4. Claims: 1-4, 6-13

Subject-matter related to the polymorphisms positions 378 of SEQ ID 16 and 112 of SEQ ID 17

5. Claims: 1-4, 6-10

Subject-matter related to the polymorphism position 389 of SEQ ID 15

6. Claims: 1-13

Subject-matter related to the polymorphisms positions 811 of SEQ ID 16 and 256 of SEQ ID 17

7. Claims: 1-4, 6-10

Subject-matter related to the polymorphism position 1877 of SEQ ID 16

8. Claims: 1-10

Subject-matter related to the polymorphism position 2021 of SEQ ID 16

9. Claims: 1-10

Subject-matter related to the polymorphism position 2380 of SEQ ID 16

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

10. Claims: 1-4, 6-10

Subject-matter related to the polymorphism position
2501-2505 of SEQ ID 16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0008157 A	17-02-2000	AU 5340699 A	28-02-2000
		EP 1141282 A2	10-10-2001
		WO 0008157 A2	17-02-2000